What is claimed is:

1. An oscilloscope adapter for a portable electronic device, comprising:

a module adapted to interface with a hardware interface port of a portable electronic device having a processor and a display, the module including a computer program memory, the memory storing computer program instructions thereon to direct the processor to perform the steps of:

collecting data representative of an signal from an external source;

displaying the data on the display as a waveform comprising individual data values as a function of time on a graph having a vertical axis and a horizontal axis, each axis having a scale.

- 2. The adapter of claim 1 wherein the adapter further includes a database of model waveforms, and the instructions further direct the processor to display a model waveform from the database on the display.
- 3. The adapter of claim 1 wherein the adapter further includes a database of collected waveform data, and the instructions further direct the processor to store the data representative of the signal in the database of collected waveform data.
- 4. The adapter of claim 1 wherein the adapter or the electronic device contains a buffer, and the instructions further direct the processor to store the data

representative of the signal in the buffer.

- 5. The adapter of claim 1 wherein the instructions further direct the processor to provide an electronic device input that, when activated by a user, allows the user to adjust the scale of one or both of the vertical axis and the horizontal axis.
- 6. The adapter of claim 5 wherein the electronic device input that allows the user to adjust one or both scales is displayed on a setup screen.
- 7. The adapter of claim 1 wherein the adapter further includes a language database containing data representative of words in a plurality of languages.
- 8. A method of causing an electronic device to function as an oscilloscope, comprising:

connecting an adapter module to a hardware interface port of a portable electronic device having a processor, a display, and a memory;

delivering computer program instructions from the module to a processor for the electronic device;

collecting, using a plurality of leads connected to the electronic device, data representative of an signal from an external source;

displaying, in response to the computer program instructions, the data on the display as a waveform comprising individual data values as a function of time on a graph having a vertical axis and a horizontal axis, each axis having

a scale.

- 9. The method of claim 8 wherein the adapter further includes a database of model waveforms, and the method further includes selecting a model waveform from the database and displaying the selected model waveform on the display.
- 10. The method of claim 8 wherein the adapter further includes a database of collected waveform data, and the method further includes storing the data representative of the signal in the database of collected waveform data.
- 11. The method of claim 8 wherein the adapter or the electronic device contains a buffer, and the method further includes storing the data representative of the signal in the buffer.
- 12. The method of claim 8 comprising the additional step of adjusting the scale of one or both of the vertical axis and the horizontal axis.
- 13. The method of claim 12 wherein the adjusting step is performed while a setup screen is displayed on the display.
- 14. The method of claim 8 wherein the adapter further includes a language database containing data representative of words in a plurality of languages, and the method comprises the additional steps of translating text and displaying the translated text on the display.
 - 15. A plug-in module for a portable electronic device, comprising:a means for interfacing with an electronic device; and

a computer program memory, the memory storing computer program instructions thereon to direct a processor to perform the steps of:

collecting data representative of an signal from an external source; and

displaying the data on a display of the electronic device as a waveform comprising individual data values as a function of time on a graph having a vertical axis and a horizontal axis, each axis having a scale.

- 16. The module of claim 15 wherein the module further includes a database of model waveforms.
- 17. The module of claim 16 wherein the instructions further direct the processor to display a model waveform from the database on the display.
- 18. The module of claim 15 wherein the module further includes a database of collected waveform data.
- 19. The module of claim 18 wherein the instructions further direct the processor to store the data representative of the signal in the database of collected waveform data.